Netzröhre für GW-Heizung
indirekt geheizt
Serienspeisung
DC-AC-heating
indirectly heated
connected in series

TELEFUNKEN

PCL 200

Triode/Pentode

Vorläufige technische Daten · Tentative data

Triode/Pentode für Video-Endstufen und getastete Regelung in Fernseh-Geräten

Triode/Pentode for Video power stages and gated AGC in TV receivers

I_f	**300**	mA
U_f	ca. 15,5	V

Normierte Anheizzeit · Normalized heater warm-up time

Meßwerte · Measuring values

Triode

U_a	**200**	V
I_a	**8,5**	mA
U_{g1}	−1,5	V
S	5,2	mA/V
μ	55	

Pentode

U_a	**150**	V
U_{g2}	**220**	V
I_a	**40**	mA
I_{g2}	8	mA
U_{g1}	−2,1	V
S	28	mA/V
R_i	22	kΩ

Betriebswerte · Typical operation

Pentode

U_{ba}	**220**	**200**	V
U_{bg2}	**220**	**200**	V
R_a	3,6	2,7	kΩ
R_k	**30**	**18**	Ω
I_k ($U_{e\,eff}$ = 0 V)	55	62	mA
$U_{e\,sp\,sp}$	2,8	2,9	V
(bei $U_{a\,spsp}$ = 100 V)			

TELEFUNKEN

Nennwert-Grenzdaten · Design centre ratings

Triode

U_{ao}	**550**	V
U_a	**250**	V
$U_{a\,sp}$[1]) ($I_a < 0{,}1$ mA)	**600**	V
N_a	**1,7**	W
I_k	**15**	mA
R_{g1}[2])	**0,5**	MΩ
$U_{f/k}$	**200**	V

Pentode

U_{ao}	**550**	V
U_a	**250**	V
N_a	**6**	W
U_{g2o}	**550**	V
U_{g2}	**250**	V
N_{g2}	**2,5**	W
I_k	**85**	mA
R_{g1}[2])	**0,5**	MΩ
$U_{f/k}$[3])	**200**	V

Kapazitäten · Capacitances

Triode

c_e	3,2	pF
c_a[4])	4,4	pF
$c_{a/g}$	2,5	pF

Pentode

c_e	14,5	pF
c_a	ca. 5,8	pF
$c_{a/g1}$	0,07	pF

zwischen Triode/Pentode

between triode/pentode

$c_{aP/aT}$	< 0,2	pF
$c_{g1/gT}$	< 0,01	pF
$c_{aT/g1}$	< 0,015	pF
$c_{aP/gT}$	< 0,05	pF

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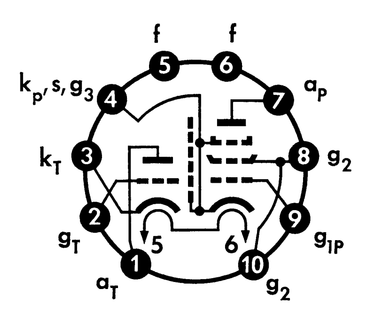
1) **Maximale Impulsdauer 18 % einer Periode, $t_{max.}$ 18 μs.**
Maximum pulse duration 18 % of a period, $t_{max.}$ 18 μs.

2) $U_{g\,fest}$ · fixed grid bias

3) **Gleichspannungskomponente max. 100 V**
DC voltage component max. 100 V

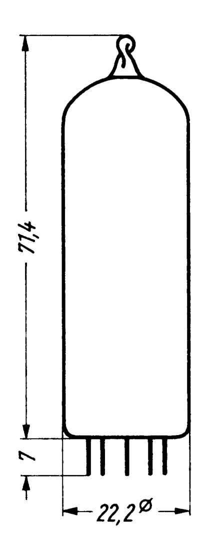
4) **Beide Kathoden verbunden** · The two Cathodes connected

Sockelschaltung
Basing diagram



Dekal

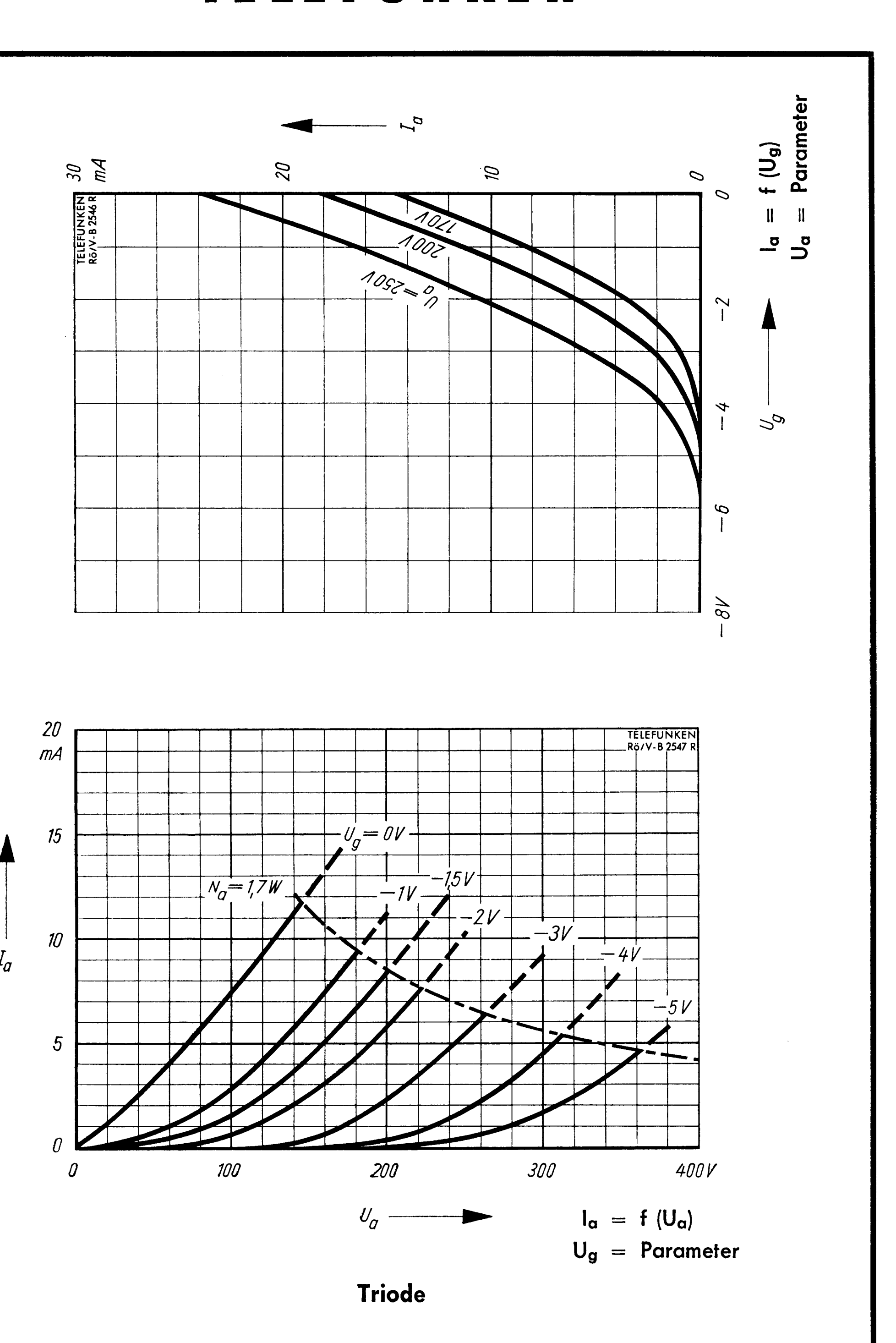
Max. Abmessungen
max. dimensions



Gewicht · Weight
max. 20 g

Einbaulage beliebig
Mounting position: any

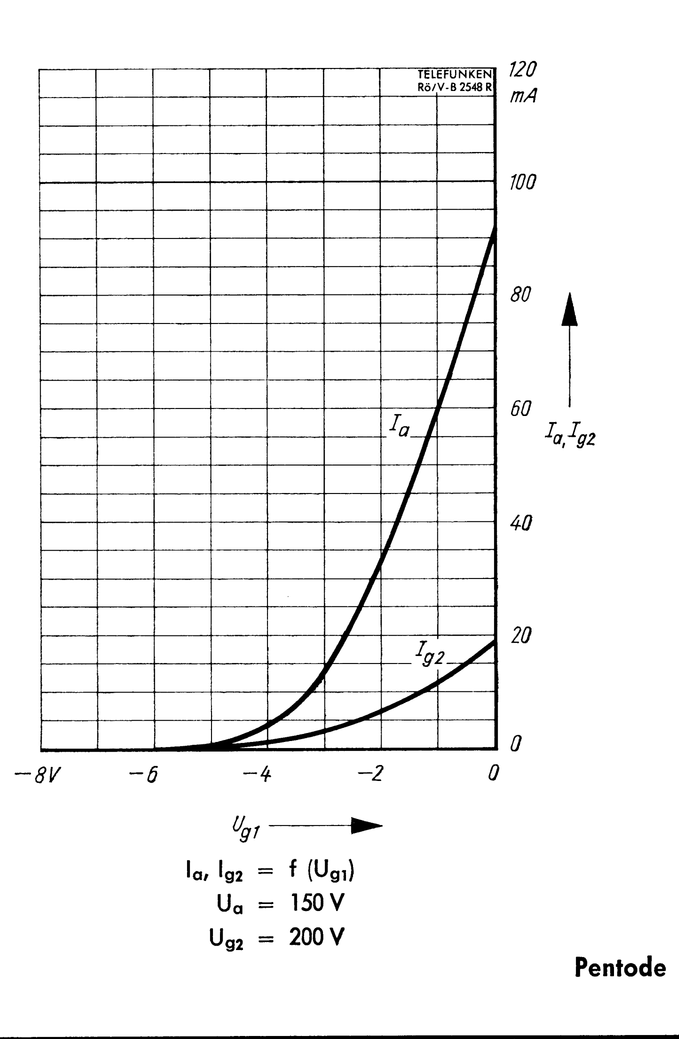
Wenn notwendig, muß gegen Herausfallen der Röhre aus der Fassung Vorsorge getroffen werden.
If necessary special precautions must be taken to prevent the tube from becoming dislodged from the socket.

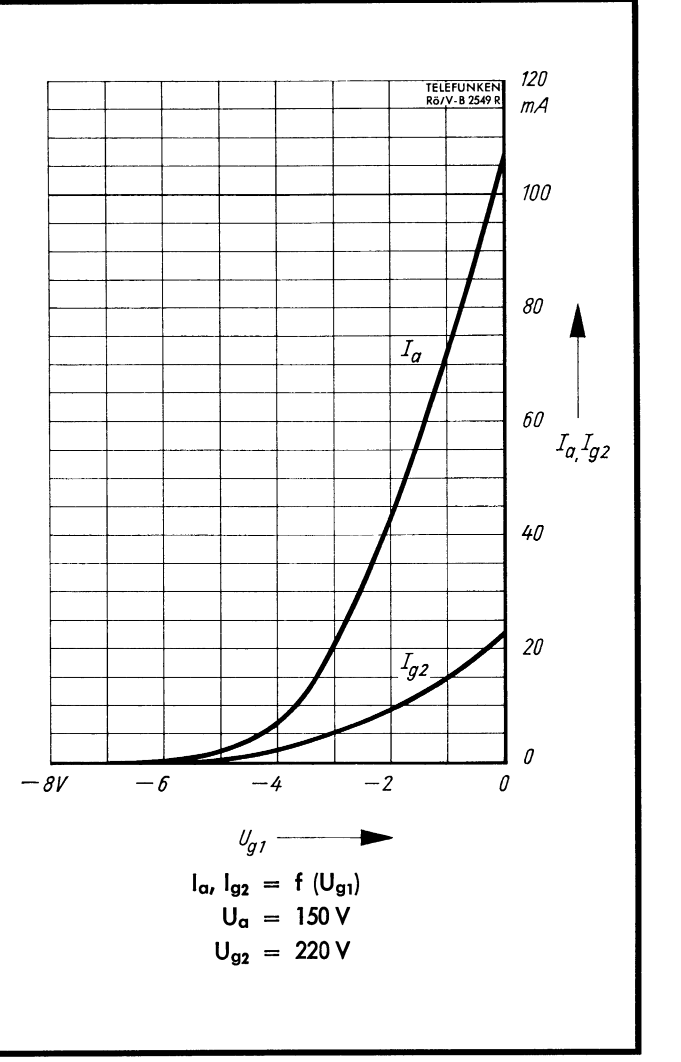


Ia
30 mA
20
10
0
-2
-4
-6
-8V
Ug
170V
200V
Ua = 250V
TELEFUNKEN Rö/V-B 2546 R
Ia = f (Ug)
Ua = Parameter
20 mA
15
10
5
0
100
200
300
400V
Ua
TELEFUNKEN Rö/V-B 2547 R
Ug = 0V
Na = 1,7W
-1V
-1,5V
-2V
-3V
-4V
-5V
Ia = f (Ua)
Ug = Parameter

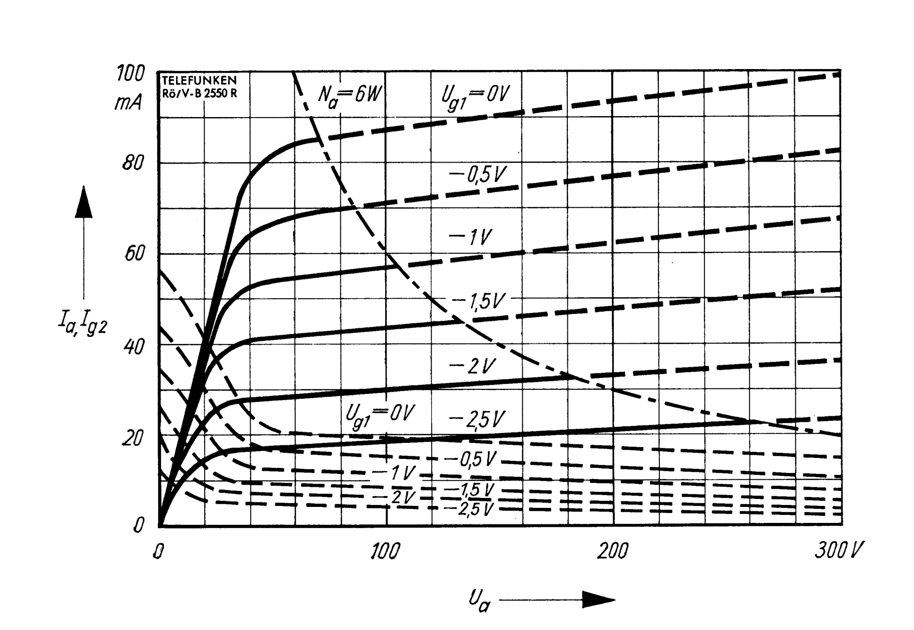
Triode

TELEFUNKEN





Pentode

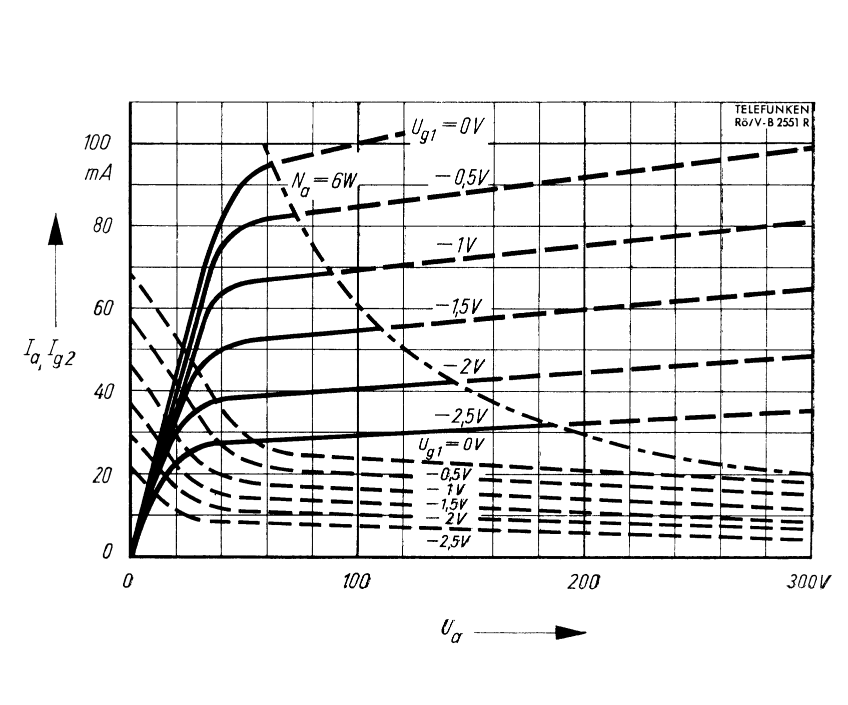


$I_a, I_{g2} = f(U_a)$
$U_{g2} = 200\ V$
U_{g1} = Parameter

——— I_a ---- I_{g2}

Pentode

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$I_a, I_{g2} = f(U_a)$
$U_{g2} = 220\ V$
$U_{g1} = $ Parameter

——— I_a - - - - I_{g2}

Pentode